MISSOURI BOTANICAL GARDEN

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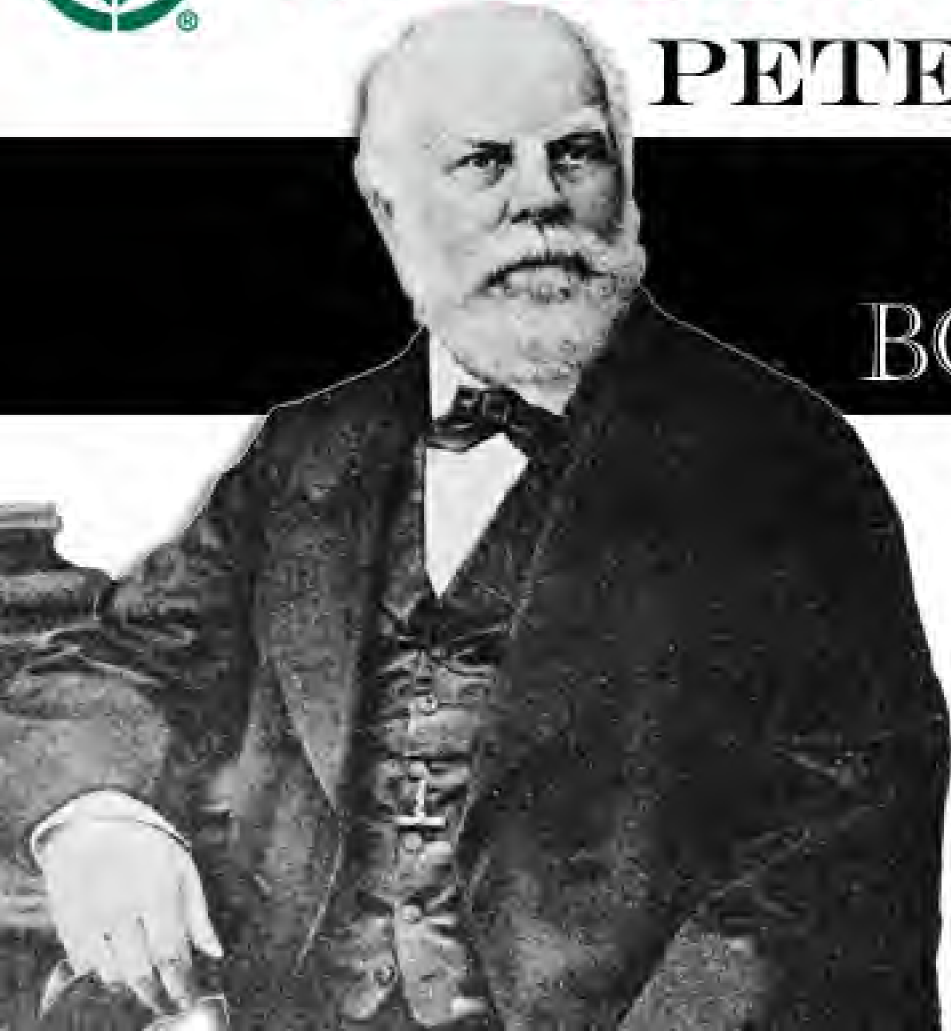

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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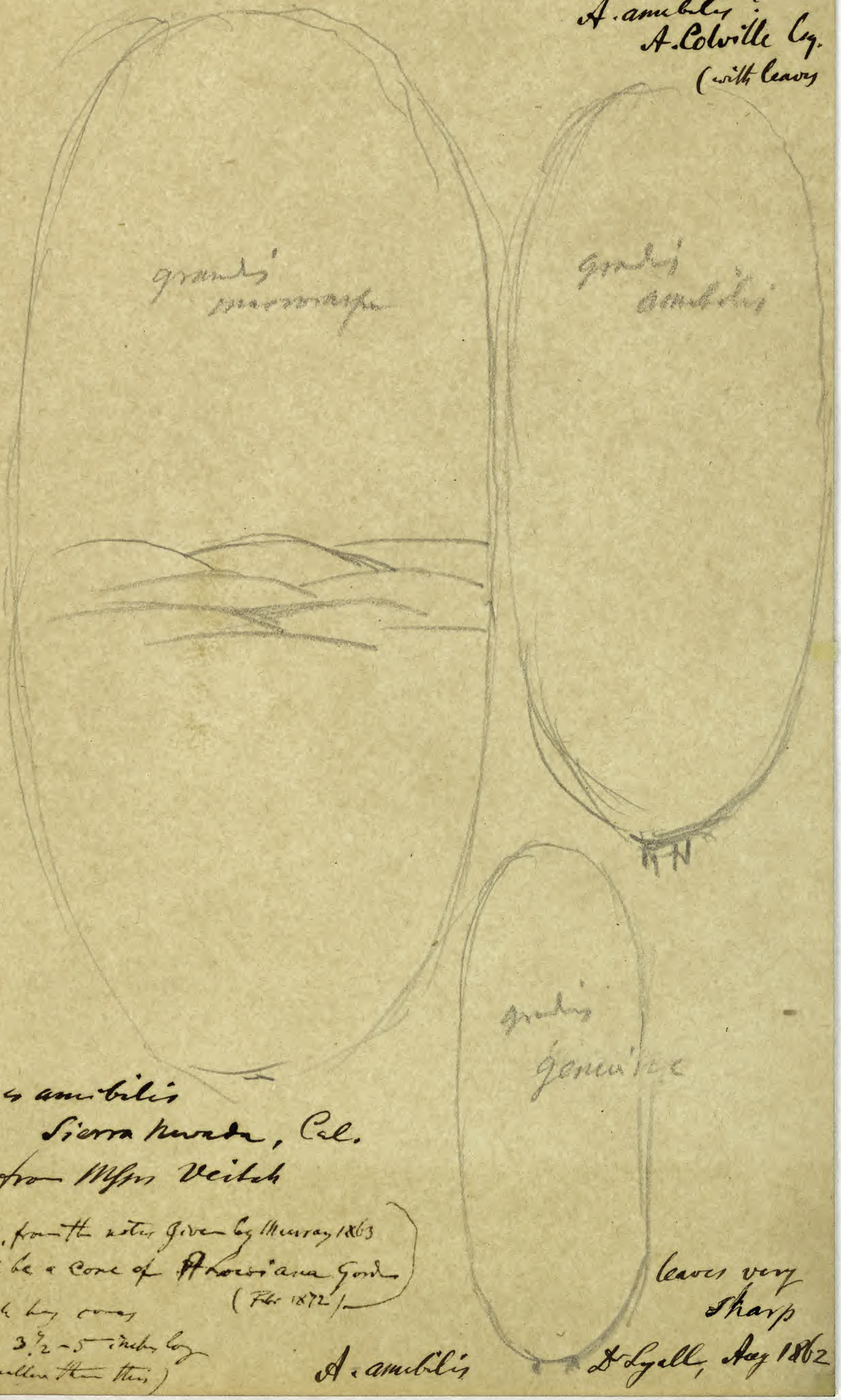
Kew Museum Sept 1869.

A. amabilis ?
A. Colville Esq.
(with leaves


grandis
microcarpa
grandis
amabilis
grandis
genuina

Abies amabilis
Sierra Nevada, Cal.
from Messrs Veitch

(This, from the notes given by Murray 1863
must be a cone of A. Lowiana Gord.
(Febr 1872)

Such long cones
from 3½ – 5 inches long
(smaller than this)

A. amabilis

leaves very
sharp
Dr Lyell, Aug 1862

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cm
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12806

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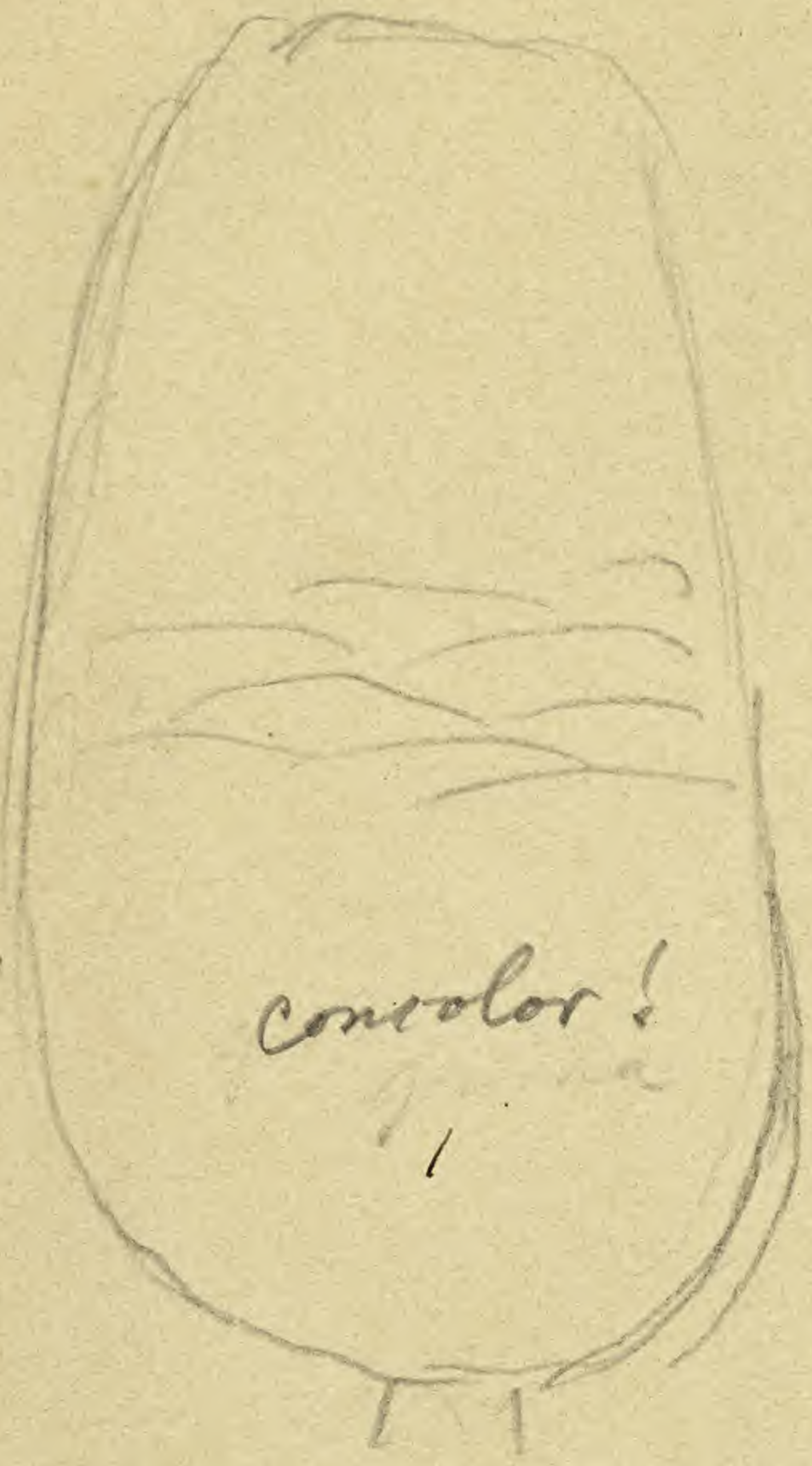
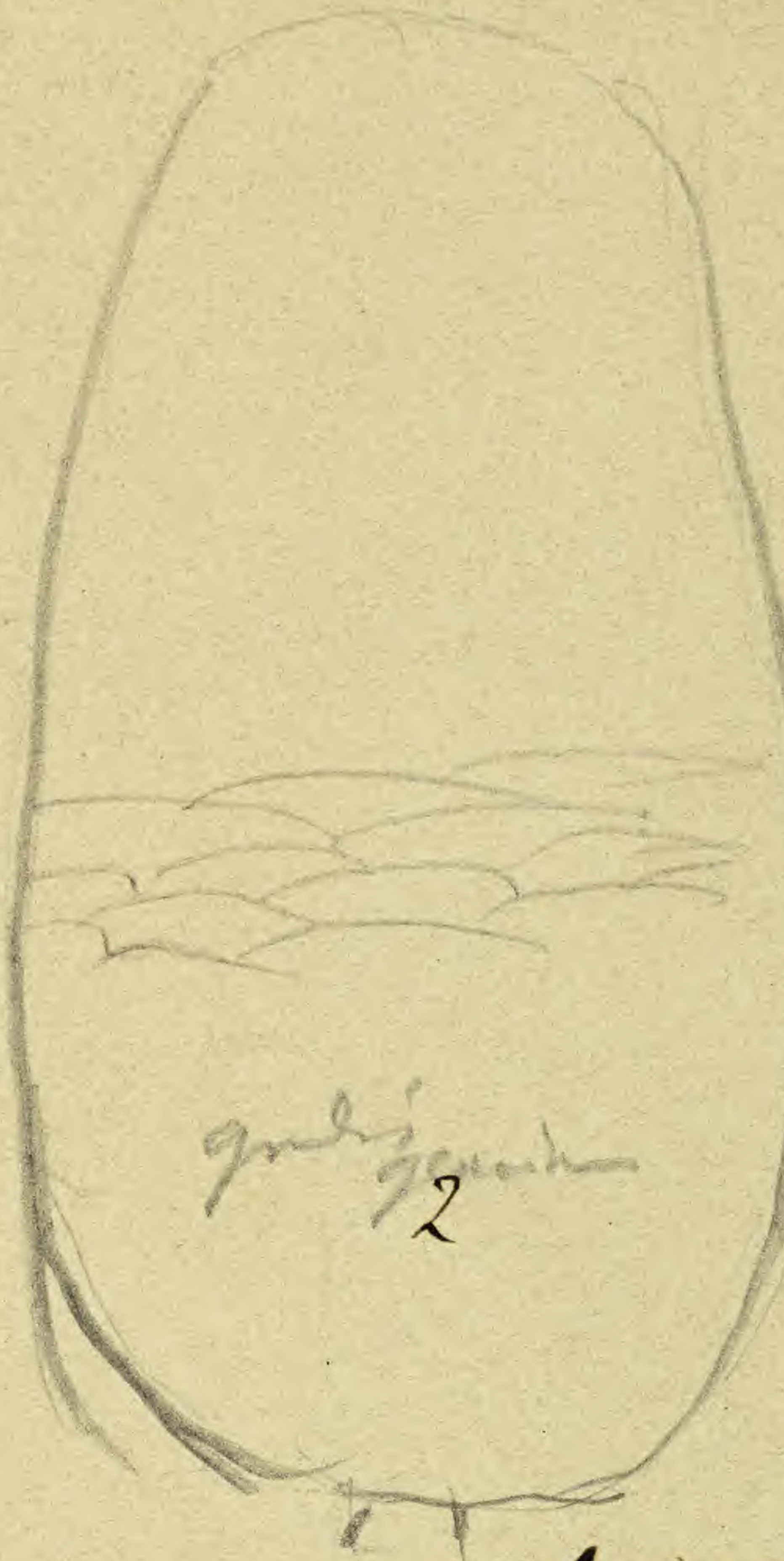
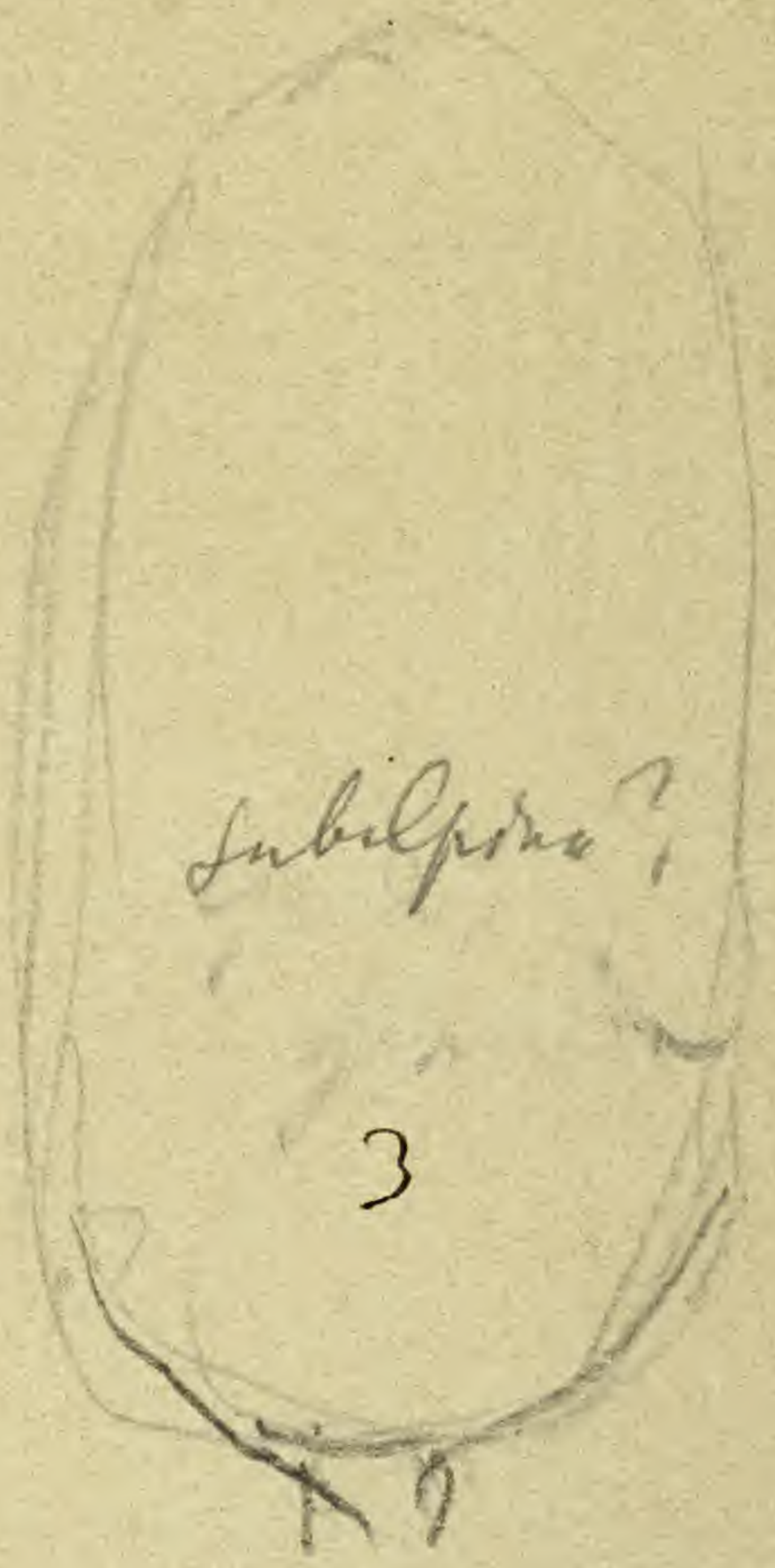
Kew Museum Sept 1869

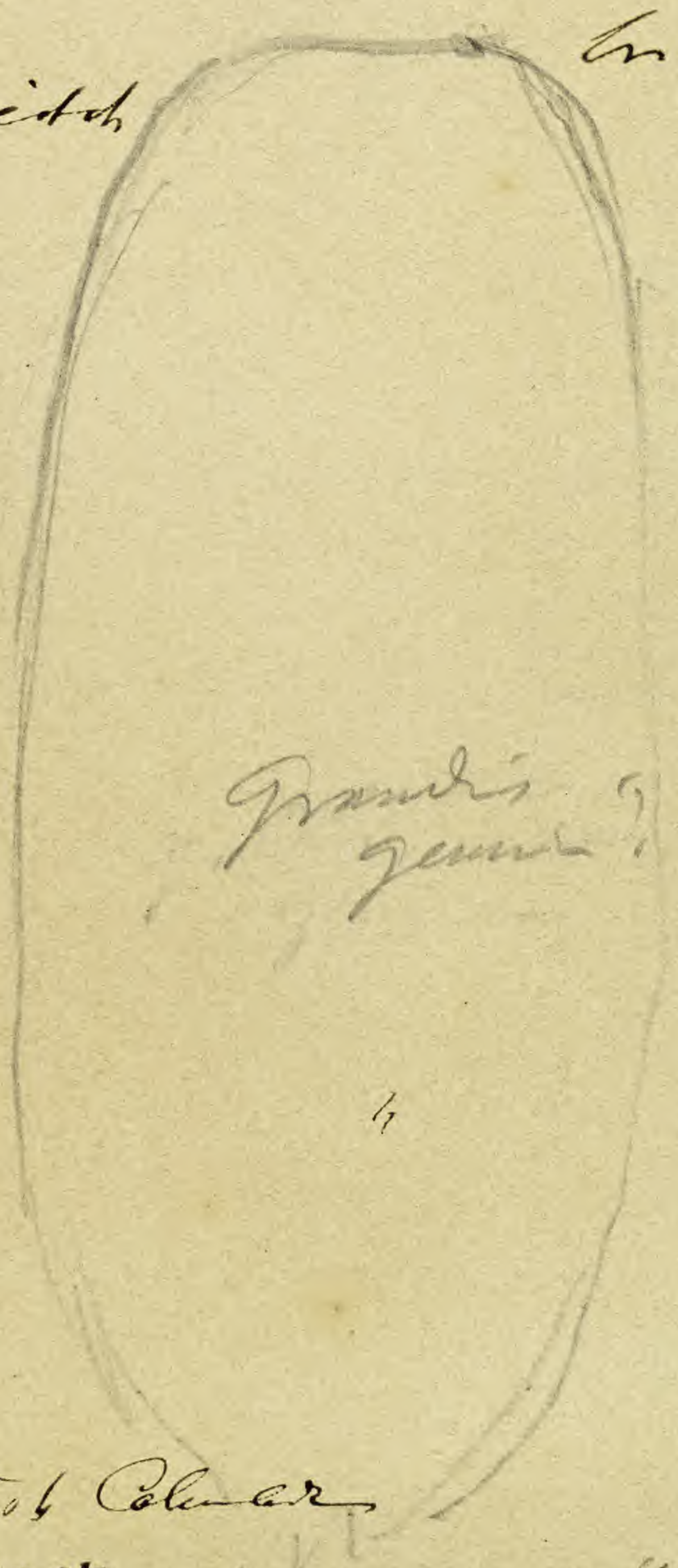


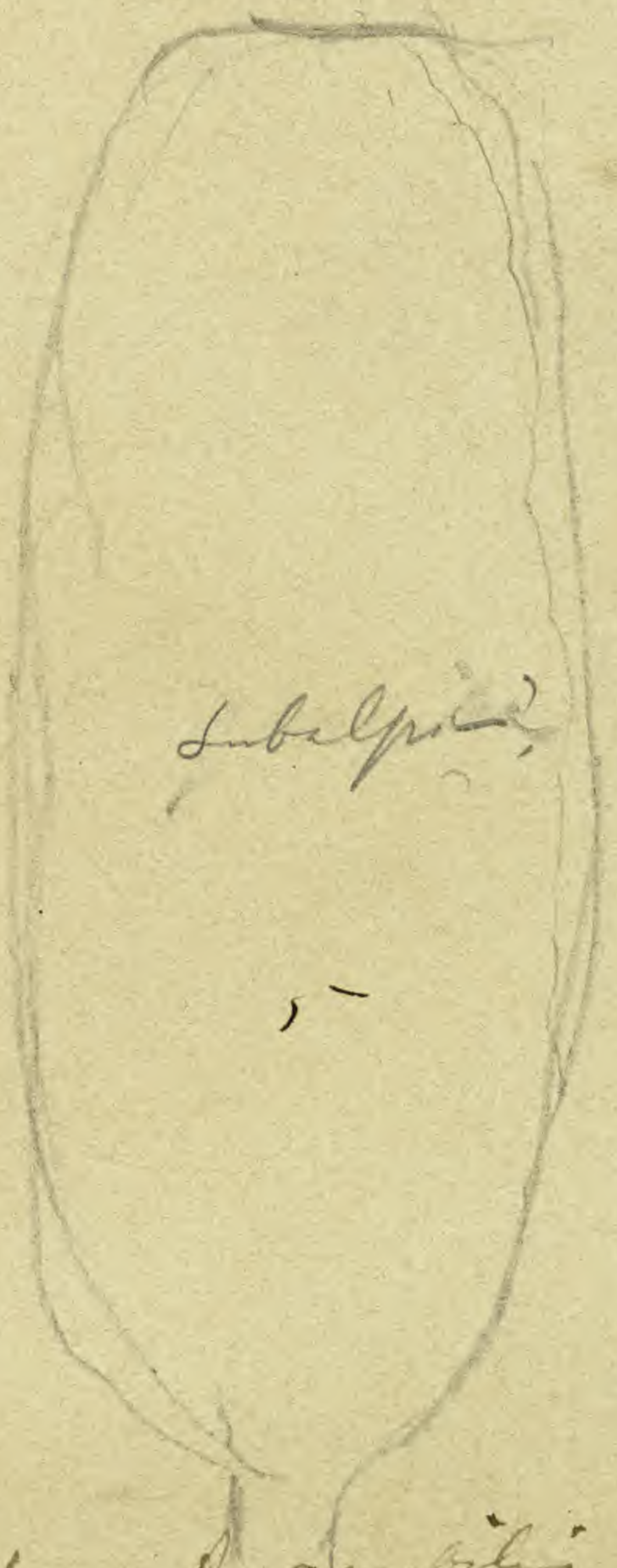

grandis genuina
2


subalpina?
3

1. A grandis
California
Messrs Veitch

2. 3 ~~A grandis~~,
British North America D Lyall
Aug 1862


grandis genuina?
4


subalpina?
5

4. 5

Sumass, British Columbia
Nov 1858 D Lyall

Sumass

called here A. amabilis

12807

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Brewer's letter to Dr Parry, San Francisco March 14, 1864

Three Species of Picea common in the Sierras,

P. nobilis not south of Mount Shasta, where it is the upper most large tree, growing to alt. 8000

[= magnifica!] Picea amabilis replaces it at all the higher Sierras south of Mount Shasta — the habit of the two trees are very much alike.

[= Concolor!] Picea grandis grows lower, beginning at about 4000 feet, most abundant at 5000' — cones like those of P. amabilis, only much smaller; Tree not so beautiful

P. bracteata not seen.

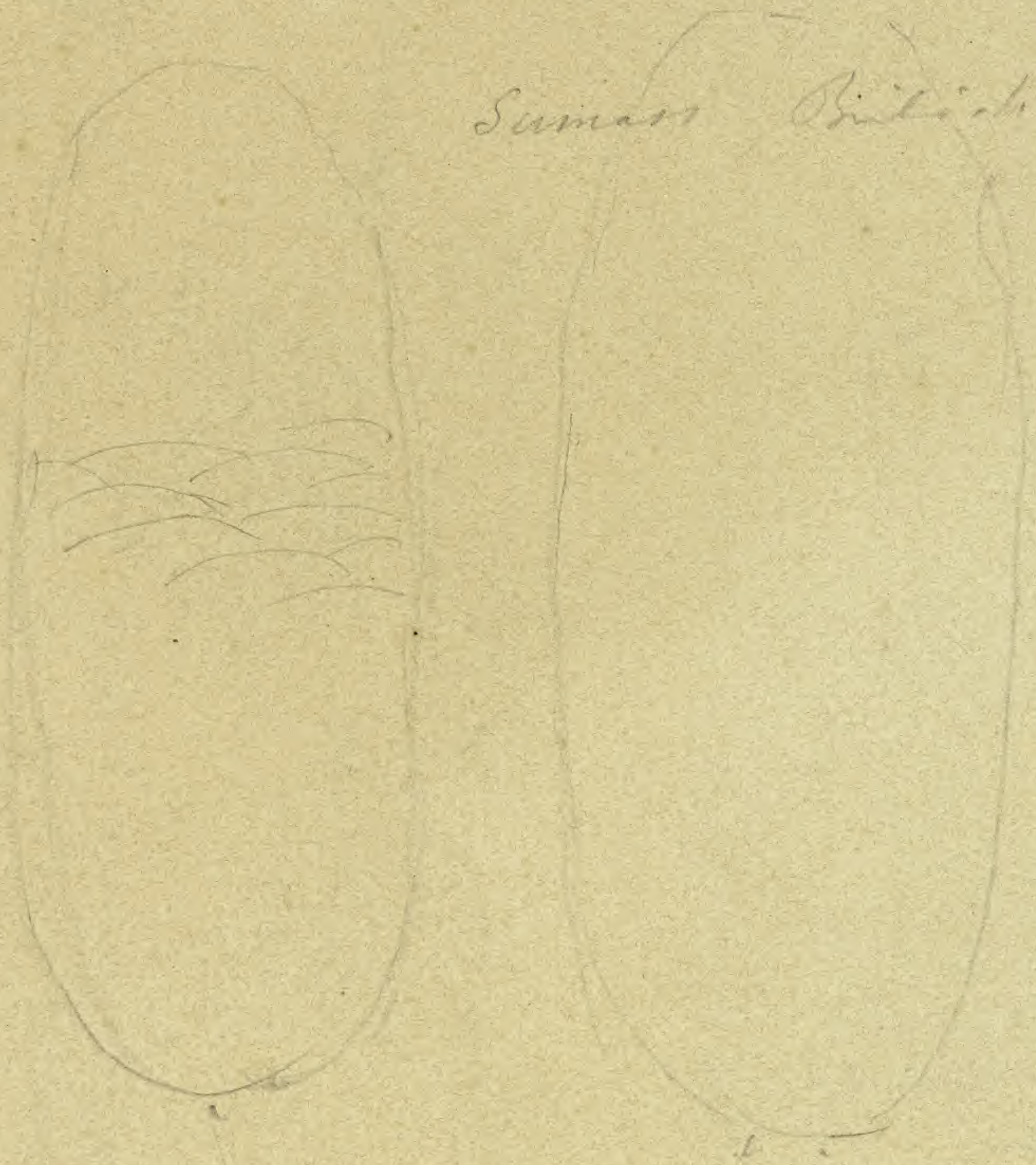
12808

Bolander in litt Dec 24 1869

Abies bracteata
A. nobilis
A grandis on the Sierra in Mariposa,
(= concolor) and along the Railroad, 3-8000'
trunk gray-white, leaves distichous
very light pale green; cones 3-4 inches'
most abundant fir in California.
"White fir" poor timber,
A. amabilis Mariposa 7000 - 10,000'
= magnifica
trunk cinnamon brown red
therefore "red-fir" excellent timber

12809

Mus Kew Sept 1869



Sumass British Columbia, Lyall

called amabilis

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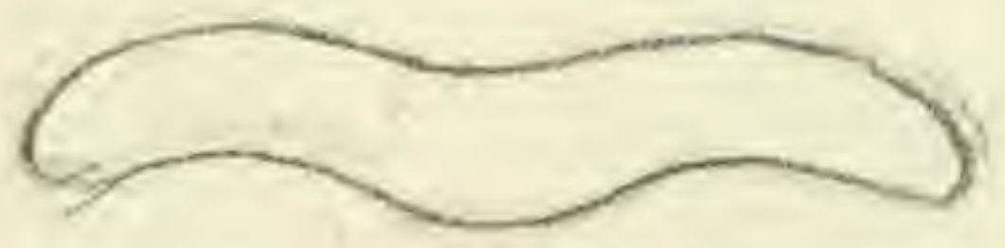
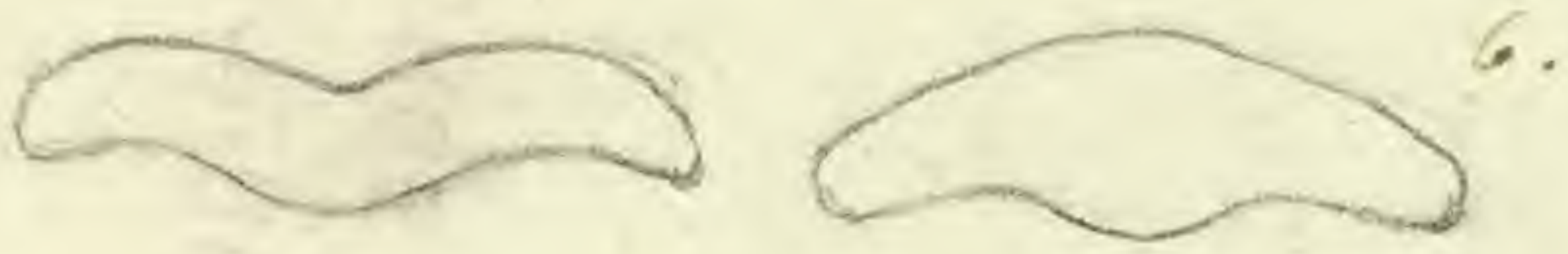
Sections of Abies leaves copied from Murray April 1872
Proc Hort. Soc. VII. July 1863

A. lasiocarpa Hook



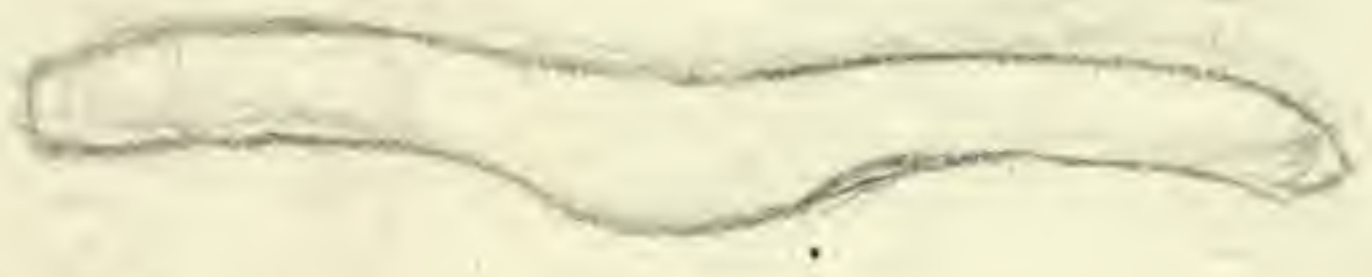
stomata both sides — on upper more near tip

A. bifolia Murr



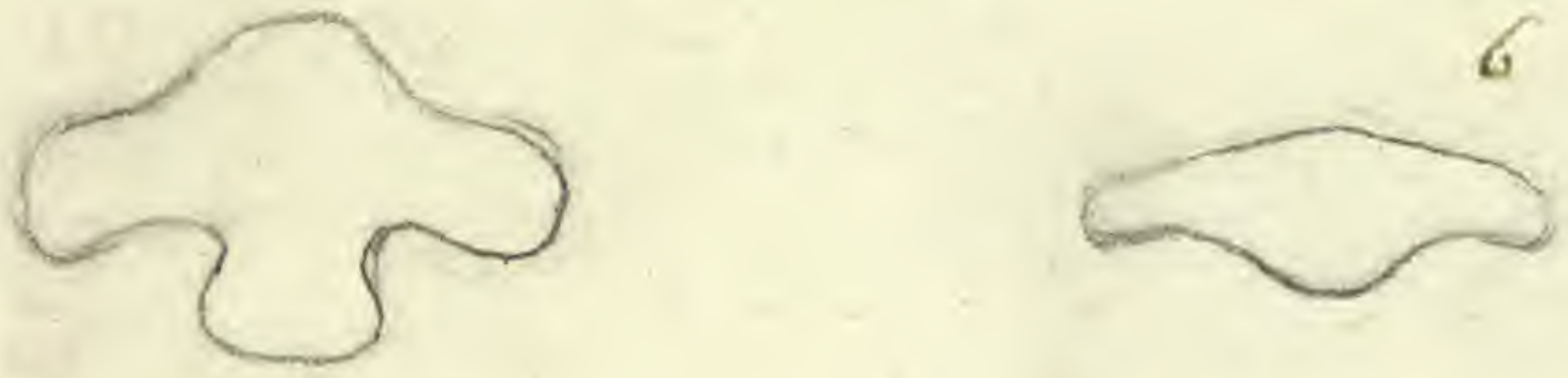
stomata both sides — b. short acute leaf from body of branch

A. Lowiana Gord



stomata both sides alike

A. magnifica Murr



stomata on both sides alike
b. leaf of very young plant

evidently all sections made on the dry leaf

Leitch & Corlies
DRUGGISTS
South-west Corner Fifth and Market Streets

12810

My contrib. to Wheeler's Report

Abies Link, not Don; Abies sect. (Firs) Gray's Man.; Pinus sect. Abies Endl. Parlat.
Picea, Don.

Coniferous trees with single more or less flattened and on the sterile branchlets, by a twist near their bases, 2-ranked, sessile, persistent leaves which leave circular flat scars; flowering from the axils of the leaves of the previous year; staminate flowers in the form of an oval or cylindrical at last stipitate [illegible], involucre of numerous scales; anthers without crests, bursting transversely, with large (0.11–0.14 mm in the longer diam.) 2-lobed pollen grains; cones erect on the more or less horizontal branchlets, maturing in the first season; their scales together with their (enclosed or exsert) membranaceous bracts falling from the persistent axis; seeds covered with balsam-vesicles and partially ~~but~~ permanently enclosed in the pergamentaceous base of the wing, which covers the outer and ~~overlaps~~ laps over the inner surface. — Stately pyramidal trees of rapid growth, but with brittle and rapidly decaying wood. — Resin ducts of leaves two, either parenchymatous or peripherical on the lower side of

12811

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grandis!	branch	Bud large
Victoria GE	smooth	resinous
" Victoria GE	slightly pub	slightly res.
Victoria! GE	" "	resinous
Mendocino Clark Bol Vasey	pub	res.
Portland GE	~~slightly~~ pub	res large
Dropmore Cult	" "	not resinous
and all my cult	—	
Willamette Hall	nearly glabrous	
Oregon Bradford	pub	resin
Washington Terr. Watson	pub	resin

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Lowiana		bark	buds
Shasta,	Brewer pub	pub	resinous
Carson City	Watson (concolor)	"	nearly smooth
Shasta	Gray	smooth	smooth
Olancha	Rothrock (concolor)	"	resinous
S. Bernardino	Parry	"	"
Duffield's Ranch	Bigelow	"	nearly smooth
Clark's	Boland	"	resinous
—	Fremont	pubescent	"
Parsoniana,	Hunnewell cult.	smooth	nearly smooth
lasiocarpa	Dropmore	"	resinous
Summit R.R.	G.E.	"	
Shasta		slightly pubescent	nearly smooth
"	"	smooth	" "
"	"	"	resinous
"	"	"	nearly smooth
Siskiyou	"	"	resinous
Blue Mts Oreg	Cusick	pub	res.

12813

A pisif
Aug 1

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Concolor		bark	Scales	bud
Utah	Muir	smooth		resinous
Salt Lake	GE	–		–
Colorado	Brandegee	"		"
Mt Graham	Lemmon	"		"
San Francisco Mts	Bischoff	"		" slightly
Mt Graham	Rothrock	"		" slightly
South Utah	Parry	pub & sm.		
Provo "	"	" & sm.		
Springlake	"	smooth		mostly smooth
Utah	Siler	pub.		resin
St George	Johnson	—		
Beaverdam	Siler	pub		

east slope of Sierra Nevada
Olanche Mtn, Rothrock is complete
Carson City Wilson Concolor

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Gordon Pinetum suppl. p. 52   1862

p.52. Picea grandis found by Douglas in north. Californ. & quite lately sent by
Bridges in British Columbia & Vancouvers Island
cones 3½–4 inches long 1½ broad — leaves pectinate

p.53. Picea Lowiana Gordon [published here for the first time] found by Wm Lobb the
collector of Low & Co, of Clapton nursery   British Columbia & North Califor.
at first mistaken for P. grandis, and often taken for it

~~p.69 Picea lophosperma Lindl. sent by Lobb early in 1860, published by Lindley — Gardeners Chron.~~
~~1860 p. 46~~

Gordon Pinetum 1858

p.149 Picea nobilis — leaves falcate - flat dull green above, silvery beneath
cones 6–7 × 2¾ inches —
p. 154 P. amabilis leaves flat irregularly densely 2 rowed, incurved, blunt pointed
cones 6 × 2 inches —
p. 155 P. concolor Lindl. [I can not find, where published bei Lindley — Gordon's seems first publication
" P. grandis ~~[illegible]~~ leaves flat, 2 rowed, obtuse or bifid 1–1½ inch long
cones 3½ × 1½ inches   bracts truncate

P. concolor is according to Henkel & Hochstetter a form of lasiocarpa

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